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The void galaxy survey

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Propositions

belonging to the dissertation

“The Void Galaxy Survey A study of the loneliest galaxies in the Universe”

1. The VGS galaxy sample mainly consists of small ($M_* < 10^{10.5} M_\odot$) late-type disk galaxies, compact objects and occasional early types. (Ch. 2)
2. VGS galaxies are similar to late-type galaxies in terms of disk presence and central surface brightness, but they are smaller and fainter. On the other hand, they are similar to dwarf ellipticals in terms of size, but they are brighter. It may indicate that many VGS galaxies may end up as large dwarf ellipticals. (Ch. 2)
3. VGS galaxies have star formation properties not dissimilar from those of intermediate density environment galaxies with similar stellar and HI mass. (Ch. 3)
4. VGS_31 is a candidate for the assembly of structure within a void, a density enhancement within an underlying dark matter filament. (Ch. 4)
5. In order to fully study the role of environment on galaxy formation and evolution, the morphological identity of the large scale environment — cluster, filament, wall or void — should be taken into account.
6. Finding the right control sample in a research project could be as difficult as doing the actual research.
7. Essentially, mathematics is a matter of patience, you should apprehend it by exploring, not memorizing. – Cahit Arf, Turkish mathematician (1910-1997)
8. Good literature should be judged by its ability to disturb, wound and heal the human soul, not by the ability to gather the dragons, elves and any other mythological elements.
9. Sometimes I think *Seinfeld* is actually a scientific documentary about human nature which tries to prove that we all have a *George* inside us, and we try to suppress him during all our life.
10. *Humour noir* reflects the human nature as it lies between the evil and the good, slightly closer to the evil.

*Burcu Beygu
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